

Form P.T.O. 1449

Docket No.
P01,0121Serial No.
09/824,086U.S. Department of Commerce
Patent and Trademark OfficeApplicant
T. ALBRECHT et al.Filing Date
April 2, 2001Group Art Unit
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U.S. PATENT DOCUMENTS

Examiner's Initials		Document Number	Date	Name	Class	Subclass	Filing Date If appropriate
<i>Qm</i>	AA	5,796,771	08/18/98	DenBaars et al.	372	75	
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	AC						
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	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
<i>Qm</i>	AL	WO 01/33678 A1	05/10/01	PCT	H01S	3/0941		
<i>Qm</i>	AM	WO 01/31756 A1	05/03/01	PCT	H01S	3/09		
	AN							
	AO							
	AP							
	AQ							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>Qm</i>	AQ	Japanese Abstract, 07249824, Date of Publication 09/26/95.
<i>Qm</i>	AR	"An optically pumped GaN-AlGaIn vertical cavity surface emitting laser", XP 000599607, Appl. Phys. Lett. 69, pgs. 1-3. <i>July 1996, Vol. 69, No. 1, Redwing et al</i>
<i>Qm</i>	AS	"Vertical cavity surface emitting laser with a submonolayer thick InAs active layer", XP 000273980, Applied Physics Letters, pgs. 1800-1802. <i>Vol. 60, No. 15, April 1992, Benjamin et al.</i>
<i>Qm</i>	AT	Onischenko et al., "Prediction of a large optical bistability in hybrid-cavity surface-emitting lasers", IEE Proc.-Optoelectron, Vol. 146, No. 1, Feb. 1999, pgs. 67-70.
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Examiner

Date Considered

11-02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<i>Qm</i>	AA	5,991,318	11/23/99	Caprara et al.	372	22	
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		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
<i>Qm</i>	AI	DE 195 06 959	08/29/96	German				✓
<i>Qm</i>	AJ	DE 197 17 571	10/29/98	German				✓
<i>Qm</i>	AK	24 13 493	10/03/74	German				✓
<i>Qm</i>	AL	DE 44 25 711	02/02/95	German				✓
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<i>Qm</i>	AN	DE 39 16 962	11/29/90	German				✓

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<i>Qm</i>	AN	Gerhold et al., "Novel Design of a Hybrid-Cavity Surface-Emitting Laser", IEEE Journal of Quantum Electronics, Vol. 34, No. 3, pgs. 506-511. <i>March 1998</i>
<i>Qm</i>	AQ	Grabherr et al., "Bottom-Emitting VCSEL's for High-CW Optical Output Power", IEEE Photonics Technology Letters, Vol. 10, No. 8, pgs. 1061-1063. <i>August 1998</i>
<i>Qm</i>	AP	Shire et al., "Coupled In-Plane and Vertical-Cavity Laser 1 X N Routing Switches", IEEE Photonics Technology Letters, Vol. 8, No. 11, pgs. 1537-1539. <i>November 1996</i>
<i>Qm</i>	AQ	Shire et al., "Multiple-Input Optical Control of Vertical Cavity Surface Emitting Lasers Using Intracavity-Coupled In-Plane Lasers", IEEE Photonics Technology Letters, Vol. 8, No. 2, pgs. 188-190. <i>Feb. 1996</i>
<i>Qm</i>	AR	Shire et al., "Gain controlled vertical cavity surface emitting lasers coupled with intracavity in-plane lasers", Appl. Phys. Lett. 66, pgs. 1717-1719. <i>April 1995</i>
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Applicant(s):
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Group Art Unit
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							Yes	N
QPM	AJ	WO 01/93386 A1	06 December 2001	PCT				

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	AQ	
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